1 / 1 PLUSPAT - COUESTEL-ORBIT - image PN - US5745182 A 19980428 [US5745182] TI - (A) Method for determining motion compensation PA - (A) MATSUSHITA ELECTRIC IND CO LTD (JP) PA0 - Matsushita Electric Industrial Company, Ltd., Osaka [JP] IN - (A) YUKITAKE TAKESHI (JP); INOUE SHUJI (JP) AP- US27801094 19940720 [1994US-0278010] FD -Divsn of US970046 19921102 [1992US-0970046] Division of: US5369449 PR-JP18198092 19920709 [1992JP-0181980]

JP29300491 19911108 [1991JP-0293004] US27801094 19940720 [1994US-0278010] US97004692 19921102 [1992US-0970046]

IC -

(A) H04N-007/32

EC - H04N-005/14M2 H04N-007/26P36E

H04N-007/36E

H04N-007/36E4 H04N-007/36E8

PCL - ORIGINAL (O): 375240160; CROSS-REFERENCE (X): 348699000 DT - Basic

CT - US4691230: US4862266: US4864294: US4989089: US4998168: US5021881: US5027205: US5036393;US5049991; US5072293; US5093720; US5105271; US5132792; US5138446; US5142361: US5144427: US5157742: US5162907: US5175618: US5191414: US5200820: US5210605; US5424779; US5436674; EP0395440 A2; EP0395271 A2; EP0447068 A2; EP0484140 A2

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Patent Abstracts of Japan, vol. 016, No. 097 (E-1176) 10 Mar. 1992 & JP-A-03 276 988 (Victor Company of Japan Ltd) 9 Dec. 1991.

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Working Party XV/1 Experts Group for ATM Video Coding, AVC-194 MPEG 92/024s, Dec. 1991.

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AB - A method for predicting motion compensation for determining of an input image based on a motion vector of the input image from this input image to a reference image which has been sampled at a first set time, and the method includes calculating a motion vector of the input image based on a move, at a second set time, of a block unit which is a part of the input image and consists of a plurality of pixels, and calculating a motion vector of the reference image based on a move, at the first set time, of a block unit which is a part of the reference image and consists of a plurality of pixels. Move compensation of the input image is calculated both from the motion vector of the input image and from the motion vector of the reference image, to thereby realize a method for determining motion compensation with high precision.

1/1 LGST - @LEGSTAT PN- US 5745182 [US5745182] AP- US 278010/94 19940720 [1994US-0278010] DT- US-P ACT - 19940720 US/AE-A APPLICATION DATA (PATENT) US 278010/94 19940720 [1994US-0278010]

> 19980428 IIS/A PATENT

20000613 US/RF REISSUE APPLICATION FILED 20000427

UP - 2000-24

1 / 1 CRXX - @CLAIMS/RRX

PN - 5,745,182 A 19980428 [US5745182]

PA - Matsushita Electric Industrial Co Ltd JP ACT- 20000427 REISSUE REQUESTED

ISSUE DATE OF O.G.: 20000613

REISSUE REOUEST NUMBER: 09/559627

EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2713

Reissue Patent Number:

20010413 REISSUE REOUESTED

ISSUE DATE OF O.G.: 20030429

REISSUE REOUEST NUMBER: 09/833680

EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2713

Reissue Patent Number:

20010413 REISSUE REOUESTED ISSUE DATE OF O.G.: 20030429

REISSUE REOUEST NUMBER: 09/833769

EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2713

Reissue Patent Number: 20010413 REISSUE REQUESTED ISSUE DATE OF O.G.: 20030429 REISSUE REQUEST NUMBER: 09/833770 EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2713 Reissue Patent Number:

20010530 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20030429
REISSUE REQUEST NUMBER: 09/866811
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2713
Reissue Patent Number:

3/39/1 (Item 1 from file: 345) DIALOG(R)File 345:Inpadoc/Fam.& Legal Stat (c) 2003 EPO. All rts. reserv. 11148435 Basic Patent (No, Kind, Date): CA 2082280 AA 19930509 <No. of Patents: 016> Patent Family: Patent No Kind Date Applic No Kind. Date AU 637289 B1 19930520 AU 9228162 19921104 CA 2082280 AA 19930509 CA 2082280 CA 2082280 С 19950207 CA 2082280 A 19921105 DE 69225863 CO 19980716 DE 69225863 A 19921106 DE 69225863 T2 19981022 DE 69225863 A 19921106 EP 541389 A2 19930512 EP 92310187 A 19921106 EP 92310187 EP 541389 A3 19940330 A 19921106 B1 19980610 EP 92310187 EP 541389 A 19921106 JP 5130594 A2 19930525 JP 91293004 A 19911108 JP 6030395 A2 19940204 JP 92181980 A 19920709 JP 2929044 B2 19990803 JP 91293004 A 19911108 JP 2938677 B2 19990823 JP 92181980 KR 9506774 B1 19950622 KR 9220769 B2 19990823 JP 92181980 A 19920709 A 19921106 A 19941129 US 970046 A 19921102 A 19980428 US 278010 A 19940720 A 19991102 US 883315 A 19970626 US 5745182 US 5978032 Priority Data (No, Kind, Date): JP 91293004 A 19911108 JP 92181980 A 19920709 US 278010 A 19940720 US 970046 A3 19921102 US 883315 A 19970626 US 278010 A3 19940720 PATENT FAMILY: AUSTRALIA (AU) Patent (No, Kind, Date): AU 637289 Bl 19930520 METHOD FOR PREDICTING MOVE COMPENSATION (English) Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD Author (Inventor): YUKITAKE TAKESHI; INOUE SHUJI Priority (No, Kind, Date): JP 91293004 A 19911108; JP 92181980 A 19920709 Applic (No, Kind, Date): AU 9228162 A 19921104 IPC: * G06F-015/70; G06F-015/68; H04N-007/137 Language of Document: English CANADA (CA) Patent (No, Kind, Date): CA 2082280 AA 19930509 METHOD FOR PREDICTING MOVE COMPENSATION (English; French) Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP) Author (Inventor): YUKITAKE TAKESHI (JP); INOUE SHUJI Priority (No.Kind, Date): JP 91293004 A 19911108; JP 92181980 A 19920709 Applic (No, Kind, Date): CA 2082280 A 19921105 IPC: *) H04N-007/12 Länguage of Document: English Patent (No, Kind, Date): CA 2082280 C 19950207 METHOD FOR PREDICTING MOVE COMPENSATION (English; French) Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP) Author (Inventor): YUKITAKE TAKESHI (JP); INOUE SHUJI (JP) Priority (No, Kind, Date): JP 92181980 A 19920709; JP 91293004 A 19911108

Applic (No, Kind, Date): CA 2082280 A 19921105 IPC: * H04N-007/12 Derwent WPI Acc No: * G 93-154317 JAPIO Reference No: * 170511E000053; 180246E000083 Language of Document: English GERMANY (DE) Patent (No, Kind, Date): DE 69225863 CO 19980716 VERFAHREN ZUR PRAEDIKTIVEN KODIERUNG MIT BEWEGUNGSKOMPENSATION (German) Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP) Author (Inventor): YUKITAKE TAKESHI (JP); INOUE SHUJI (JP) Priority (No, Kind, Date): JP 91293004 A 19911108; JP 92181980 A 19920709 Applic (No, Kind, Date): DE 69225863 A IPC: * H04N-007/24; H04N-007/32 Derwent WPI Acc No: * G 93-154317 JAPIO Reference No: * 170511E000053; 180246E000083 Language of Document: German Patent (No, Kind, Date): DE 69225863 T2 19981022 VERFAHREN ZUR PRAEDIKTIVEN KODIERUNG MIT BEWEGUNGSKOMPENSATION (German) Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP) Author (Inventor): YUKITAKE TAKESHI (JP); INOUE SHUJI (JP) Priority (No, Kind, Date): JP 91293004 A 19911108; JP 92181980 A 19920709 Applic (No, Kind, Date): DE 69225863 A. 19921106 IPC: * H04N-007/24; H04N-007/32 Derwent WPI Acc No: * G 93-154317 JAPIO Reference No: * 170511E000053; 180246E000083 Language of Document: German GERMANY (DE) Legal Status (No, Type, Date, Code, Text): DE 69225863 19980716 DE REF CORRESPONDS TO (ENTSPRICHT) EP 541389 P 19980716 19981022 DE 8373 DE 69225863 TRANSLATION OF PATENT DOCUMENT OF EUROPEAN PATENT WAS RECEIVED AND HAS BEEN PUBLISHED (UEBERSETZUNG DER PATENTSCHRIFT DES EUROPAEISCHEN PATENTES IST EINGEGANGEN UND VEROEFFENTLICHT WORDEN) DE 69225863 19990708 DE 8364 P NO OPPOSITION DURING TERM OF OPPOSITION (EINSPRUCHSFRIST ABGELAUFEN OHNE DASS EINSPRUCH ERHOBEN WURDE) EUROPEAN PATENT OFFICE (EP) Patent (No, Kind, Date): EP 541389 A2 19930512 METHOD FOR PREDICTING MOVE COMPENSATION (English; French; German) Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP) Author (Inventor): YUKITAKE TAKESHI (JP); INOUE SHUJI (JP) Priority (No, Kind, Date): JP 91293004 A 19911108; JP 92181980 A 19920709 Applic (No, Kind, Date): EP 92310187 A 19921106 Designated States: (National) BE; DE; FR; GB; NL; SE IPC: * H04N-007/13 Derwent WPI Acc No: ; G 93-154317 Language of Document: English Patent (No, Kind, Date): EP 541389 A3 19940330 METHOD FOR PREDICTING MOVE COMPENSATION (English; French; German) Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP) Author (Inventor): YUKITAKE TAKESHI (JP); INOUE SHUJI Priority (No, Kind, Date): JP 91293004 A 19911108; JP 92181980 A

Applic (No, Kind, Date): EP 92310187 A 19921106 Designated States: (National) BE; DE; FR; GB; NL; SE IPC: * H04N-007/13 Derwent WPI Acc No: * G 93-154317 JAPIO Reference No: * 170511E000053 Language of Document: English Patent (No, Kind, Date): EP 541389 B1 19980610 METHOD FOR PREDICTING MOVE COMPENSATION (English; French; German) Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP) Author (Inventor): YUKITAKE TAKESHI (JP); INOUE SHUJI Priority (No, Kind, Date): JP 92181980 A 19920709; JP 91293004 A 19911108 Applic (No, Kind, Date): EP 92310187 A 19921106 Designated States: (National) BE; DE; FR; GB; NL; SE IPC: * H04N-007/24; H04N-007/32 Derwent WPI Acc No: * G 93-154317 JAPIO Reference No: * 170511E000053; 180246E000083 Language of Document: English EUROPEAN PATENT OFFICE (EP) Legal Status (No, Type, Date, Code, Text): 19911108 EP AA PRIORITY (PATENT APPLICATION) (PRIORITAET (PATENTANMELDUNG)) JP 91293004 A 19911108 EP 541389 19920709 EP AA PRIORITY (PATENT APPLICATION) (PRIORITAET (PATENTANMELDUNG)) JP 92181980 A 19920709 EP 541389 19921106 EP AE EP-APPLICATION (EUROPAETSCHE ANMELDUNG) EP 92310187 A 19921106 EP 541389 19930512 EP AK DESIGNATED CONTRACTING STATES IN AN APPLICATION WITHOUT SEARCH REPORT (IN EINER ANMELDUNG OHNE RECHERCHENBERICHT BENANNTE VERTRAGSSTAATEN) BE DE FR GB NL SE EP 541389 19930512 EP A2 PUBLICATION OF APPLICATION WITHOUT SEARCH REPORT (VEROEFFENTLICHUNG DER ANMELDUNG OHNE RECHERCHENBERICHT) EP 541389 19940330 EP AK DESIGNATED CONTRACTING STATES IN A SEARCH REPORT (IN EINEM RECHERCHENBERICHT BENANNTE VERTRAGSSTAATEN) BE DE FR GB NL SE EP 541389 19940330 EP A3 SEPARATE PUBLICATION OF THE SEARCH REPORT (ART. 93) (GESONDERTE VEROEFFENTLICHUNG DES RECHERCHENBERICHTS (ART. 93)) EP 541389 19941019 EP 17P REQUEST FOR EXAMINATION FILED (PRUEFUNGSANTRAG GESTELLT) 940818 EP:541389 19951220 EP 17Q FIRST EXAMINATION REPORT (ERSTER PRUEFUNGSBESCHEID) 951102 EP 541389 19980610 EP AK DESIGNATED CONTRACTING STATES MENTIONED IN A PATENT SPECIFICATION. (IN EINER PATENTSCHRIFT ANGEFUEHRTE BENANNTE

VERTRAGSSTAATEN)

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BE DE FR GB NL SE
    EP 541389
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                                              PATENT SPECIFICATION
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                       19990602 EP 26N
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JAPAN (JP)
  Patent (No, Kind, Date): JP 5130594 A2 19930525
           FOR PREDICTIVE ENCODING BETWEEN MOTION-COMPENSATED FRAMES
      (English)
    Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD
    Author (Inventor): INOUE SHUJI
    Priority (No, Kind, Date): JP 91293004 A 19911108
    Applic (No, Kind, Date): JP 91293004 A 19911108
    IPC: * H04N-007/137; H03M-007/30
    JAPIO Reference No: ; 170511E000053
    Language of Document: Japanese
  Patent (No.Kind, Date): JP 6030395 A2 19940204
   METHOD FOR PREDICTING MOTION COMPENSATION (English)
   Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD
   Author (Inventor): NAMETAKE TAKESHI; INOUE SHUJI
   Priority (No, Kind, Date): JP 92181980 A 19920709
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   IPC: * H04N-007/137
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   IPC: * HO4N-007/32; HO3M-007/30
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   Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD
   Author (Inventor): NAMETAKE TAKESHI; INOE SHUJI
   Priority (No, Kind, Date): JP 92181980 A 19920709
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KOREA, REPUBLIC (KR)
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   MOTION COMPENSATION PREDICTIVE METHOD (English)
   Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP)
   Author (Inventor): YUKITAKE TAKESHI (JP); INOUE SYUJI (JP)
Priority (No, Kind, Date):
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UNITED STATES OF AMERICA (US)
 Patent (No, Kind, Date): US 5369449 A
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   Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP)
   Author (Inventor): YUKITAKE TAKESHI (JP); INOUE SHUJI (JP)
   Priority (No, Kind, Date): JP 92181980 A 19920709; JP 91293004 A
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   METHOD FOR DETERMINING MOTION COMPENSATION (English)
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   Author (Inventor): YUKITAKE TAKESHI (JP); INOUE SHUJI (JP)
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   METHOD FOR PREDICTING MOTION COMPENSATION (English)
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   Priority (No, Kind, Date): US 883315 A 19970626; JP 91293004 A
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   Derwent WPI Acc No: * G 93-154317
   JAPIO Reference No: * 170511E000053; 180246E000083
   Language of Document: English
UNITED STATES OF AMERICA (US)
 Legal Status (No, Type, Date, Code, Text):
   US 5369449
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                            JP 91293004 A
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                      19921102 US AE
                                             APPLICATION DATA (PATENT)
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                            US 970046 A 19921102
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                            INTEREST
                            MATSUSHIA ELECTRIC INDUSTRIAL CO., LTD. 1006,
                            OAZA KADOMA, KADOMA-SHI OSAKA, JAP ;
                            YUKITAKE, TAKESHI : 19921028; INOUE, SHUJI :
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| US | 5745182 | P | 19921102 US AA PRIORITY | |
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| | | | US 278010 A 19940720 | |
| US | 5745182 | P | 19980428 US A PATENT | |
| US | 5745182 | P | 20000613 US RF REISSUE APPLICATION F | LLED |
| | | | (REISSUE APPL, FILED) | |
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| US | 5978032 | P | 19911108 US AA PRIORITY (PATENT) | |
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| | | | 10001100 880 11 1757-000 | |

LEVEL 1 1 OF 1 PATENT

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

LEXIS-NEXIS

Library: PATENT File:

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5745182

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April 28, 1998

Method for determining motion compensation

REISSUE: Reissue Application filed Apr. 27, 2000 (O.G. Jun. 13, 2000) Ex. Gp.: 2713; Re. S.N. 09/559,627, (O.G. June 13, 2000) April 13, 2001 - Reissue Application filed Ex. Gp.: 2713; Re. S.N. 09/833,680

(O.G. April 29, 2003) April 13, 2001 - Reissue Application filed Ex. Gp.: 2713; Re. S.N. 09/833,769

(O.G. April 29, 2003) April 13, 2001 - Reissue Application filed Ex. Gp.: 2713; Re. S.N. 09/833,770 (O.G. April 29, 2003)

May 30, 2001 - Reissue Application filed Ex. Gp.: 2713; Re. S.N. 09/866,811 (O.G. April 29, 2003)

INVENTOR: Yukitake, Takeshi - Yokohama, Japan (JP); Inoue, Shuji - Yokohama, Japan (JP)

APPL-NO: 278010 (08)

0.7 %

FILED-DATE: July 20, 1994

GRANTED-DATE: April 28, 1998

PRIORITY: November 8, 1991 - 3293004, Japan (JP); July 9, 1992 - 4181980, Japan (JP)

ASSIGNEE-AT-ISSUE: Matsushita Electric Industrial Co., Ltd., Osaka, Japan (JP), 03

LEGAL-REP: Watson Cole Stevens Davis, PL

PUB-TYPE: April 28, 1998 - Utility Patent having no previously published pre-grant publication (A)

LEGAL-REP: Watson Cole Stevens Davi PUB-TYPE: April 28, 1998 - Utility Patent having no previously published pre-grant publication (A) PUB-COUNTRY: United States (US) REL-DATA: Division of Ser. No. 07/970046, November 2, 1992, GRANTED 5369449 US-MAIN-CL: 375#240.16 US-ADDL-CL: 348#699 CL: 375, 348 SEARCH-FLD: 348#413, 348#416, 348#699, 348#400.-402, 348#407, 348#409.-412, 348#384, 348#390, 348#415 TPC-MAIN-CL: 6H 04N007#32 PRIM-EXMR: Lee, Richard REF-CITED: <=2> 04691230, September, 1987, Kaneko et al., United States (US), 348699 04862266, August, 1989, Gillard, United States (US), 348699 04864294, September, 1989, Gillard, United States (US) <=4> 04989089, January, 1991, Chantelou et al., United States (US) <=5> <=6> 04998168, March, 1991, Gillard, United States (US), 348699 <=7> 05021881, June, 1991, Avis et al., United States (US), 348699 <=8> 05027205, June, 1991, Avis et al., United States (US), 348699 05036393, July, 1991, Samad et al., United States (US), 348699 <=9> <=10> 05049991, September, 1991, Niihara, United States (US), 358105 <=11> 05072293, December, 1991, De Haan et al., United States (US), 348699 05093720, March, 1992, Krause et al., United States (US), 358133 <=12> 05105271, April, 1992, Niihara, United States (US), 358105 <=13> <=14> 05132792, July, 1992, Yonemitsu et al., United States (US), 358105 <=15> 05138446, August, 1992, Guichard et al., United States (US), 348699 <=16> 05142361, August, 1992, Tayama et al., United States (US), 348699

05144427, September, 1992, Kitaura et al., United States (US), 358105

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